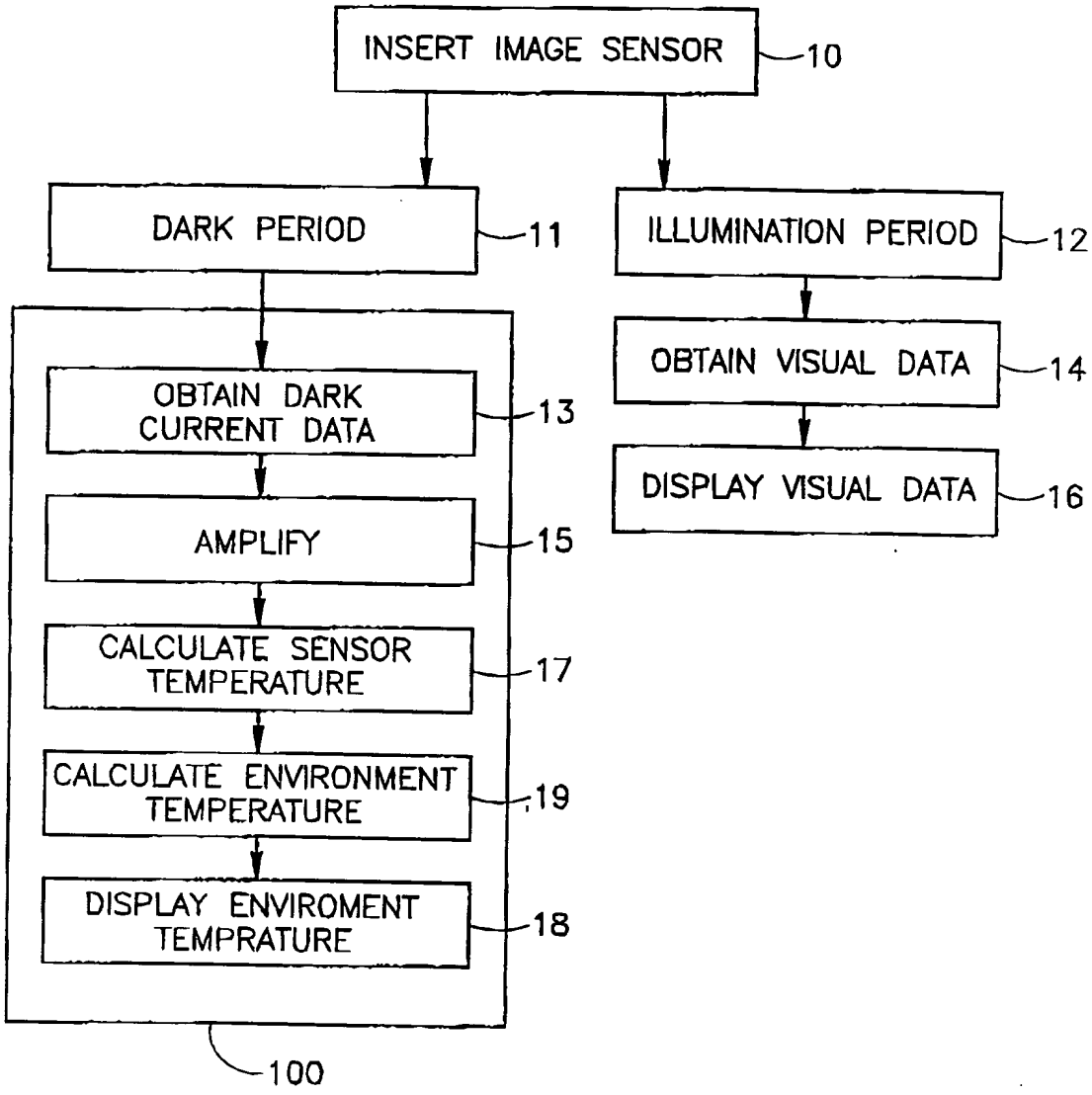
INSERT IMAGE SENSOR
10
DARK PERIOD
11
ILLUMINATION PERIOD
12
OBTAIN DARK CURRENT DATA
13
OBTAIN VISUAL DATA
14
AMPLIFY
15
DISPLAY VISUAL DATA
16
CALCULATE SENSOR TEMPERATURE
17
CALCULATE ENVIRONMENT TEMPERATURE
19
DISPLAY ENVIROMENT TEMPRATURE
18
100

FIG.1

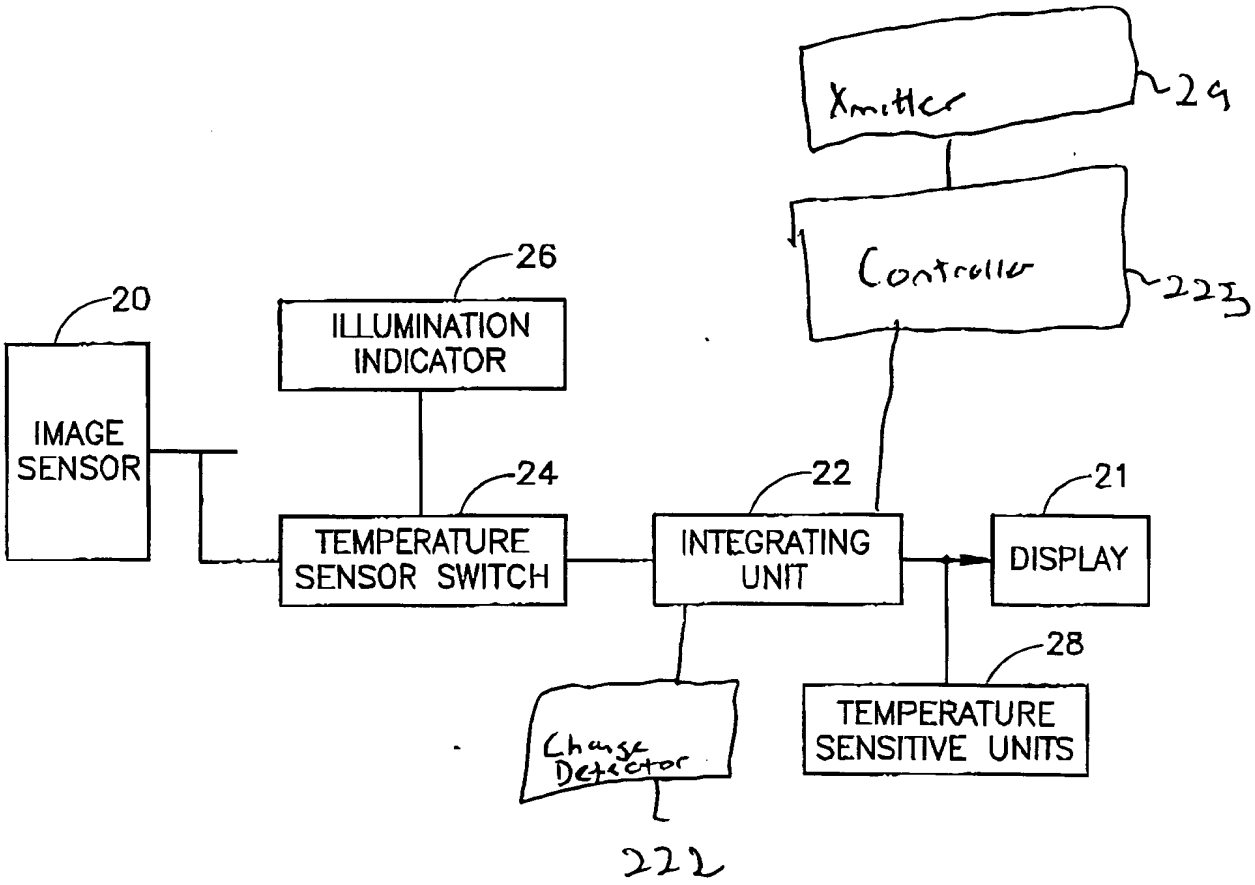
Xmitter
29
Controller
223
26
ILLUMINATION INDICATOR
20
IMAGE SENSOR
24
TEMPERATURE SENSOR SWITCH
22
INTEGRATING UNIT
21
DISPLAY
28
TEMPERATURE SENSITIVE UNITS
Charge Detector
222

FIG.2

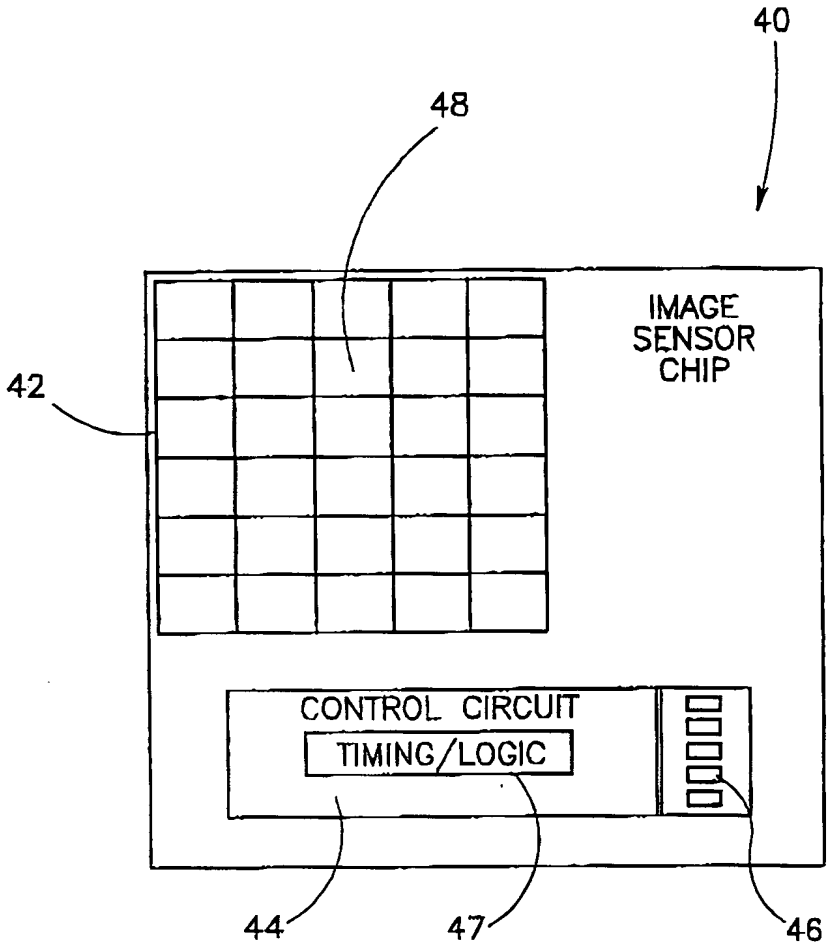
40
48
42
IMAGE
SENSOR
CHIP
CONTROL CIRCUIT
TIMING/LOGIC
44
47
46

FIG.3

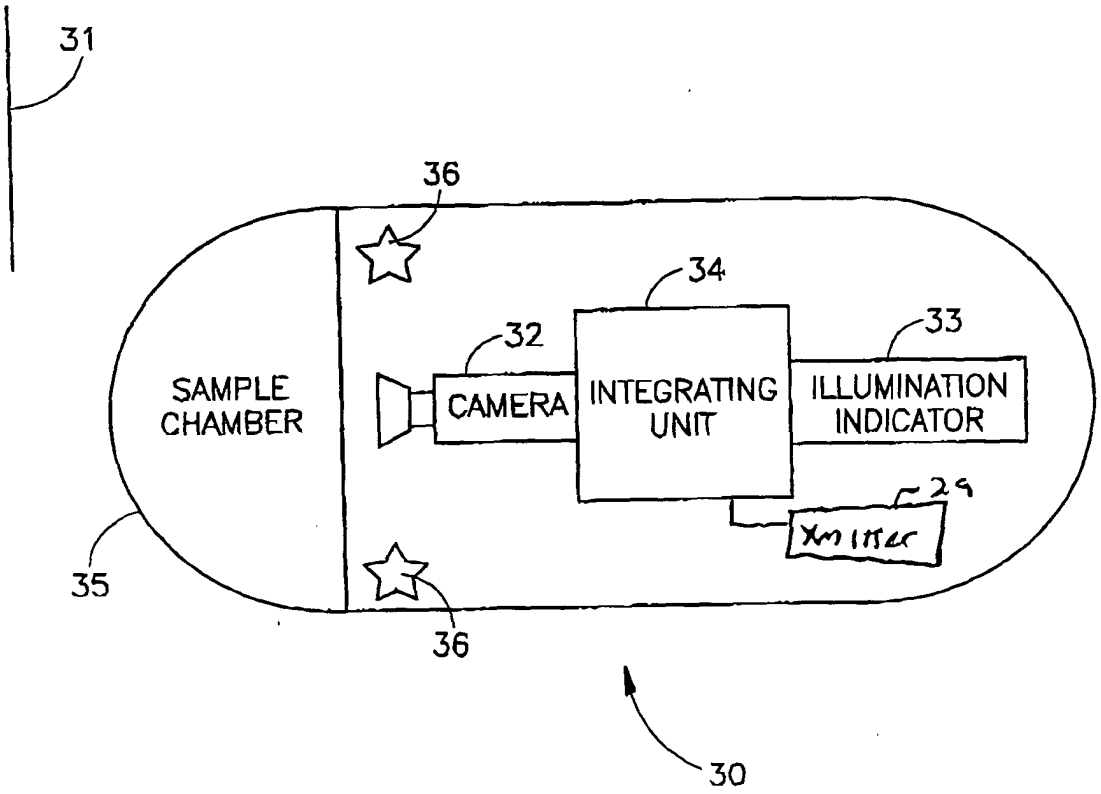
31
36
34
32
33
SAMPLE CHAMBER
CAMERA
INTEGRATING UNIT
ILLUMINATION INDICATOR
29
Xmitter
35
36
30

FIG.4

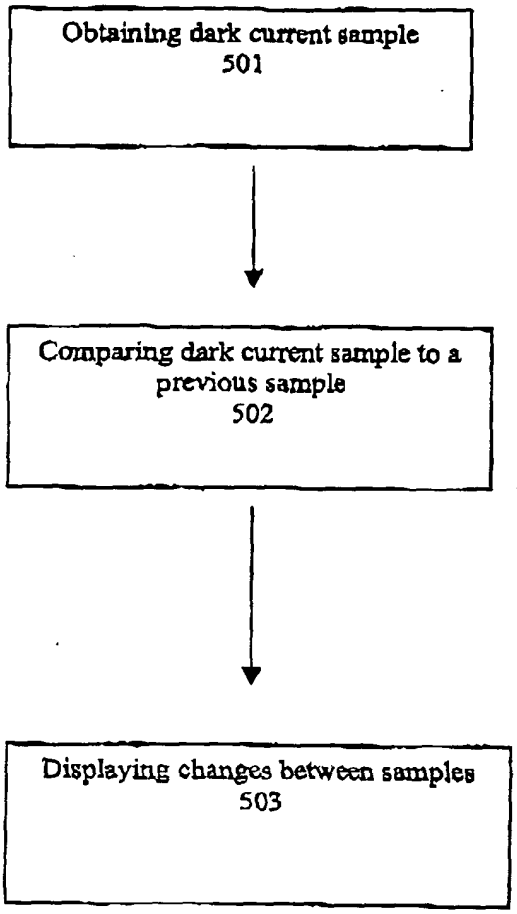
Obtaining dark current sample
501
Comparing dark current sample to a previous sample
502
Displaying changes between samples
503

FIGURE 5